AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Claim 1 (previously presented): An assembly for introduction into an incision and for

sealing an opening in the wall of a blood vessel having a vessel wall with inner and outer wall

surfaces and a preexisting hollow interior, said assembly comprising:

a sheath arranged to be placed inside said incision and directed to the opening in the wall

of the blood vessel;

an occlusion element, arranged to be inserted through said sheath into and through the

opening in the wall of the blood vessel for disposition within the preexisting hollow interior of

the blood vessel, said occlusion element not serving to form the preexisting hollow interior of the

blood vessel;

a retaining thread having a distal section and a proximal section, said distal section being

arranged to be inserted through said sheath into and through the opening in the wall of the blood

vessel, said distal section being attached to said occlusion element, said proximal section being

arranged to remain proximal to the opening in the blood vessel, whereupon a portion of said

retaining thread bridges the wall of the blood vessel through the opening, said retaining thread

being further arranged to apply force to said occlusion element to cause the engagement of said

occlusion element with the inner wall surface of the blood vessel while said occlusion element

remains within the preexisting hollow interior of the blood vessel; and

a locking element, arranged to be slidably mounted on said retaining thread to apply force

to the outer wall surface of the blood vessel to produce tension in said retaining thread confined

to the portion of said retaining thread bridging the wall of the blood vessel.

Claim 2 (original): The assembly of claim 1, wherein said occlusion element and said

retaining thread are resorbable.

Claim 3 (original): The assembly of claim 2 wherein said locking element is resorbable.

Claim 4 (previously presented): An assembly for introduction into an incision and for

sealing an opening in the wall of a blood vessel having a vessel wall with inner and outer wall

surfaces and a preexisting hollow interior, said assembly comprising;

a sheath arranged to be placed inside said incision and directed to the opening in the wall

of the blood vessel;

a first resorbable segment having a distal section and a proximal section, said distal

section being arranged to be inserted through said sheath into and through the opening in the wall

of the blood vessel;

a second resorbable segment attached to said distal section of said first resorbable section

and arranged to be inserted through said sheath into and through the opening in the wall of the

blood vessel for disposition within the preexisting hollow interior of the blood vessel, said

second resorbable segment not serving to form the preexisting hollow interior of the blood

vessel, said proximal section of said first resorbable segment being arranged to remain proximal

to the opening in the wall of the blood vessel, whereupon a portion of said first resorbable

segment bridges the wall of the blood vessel through the opening, said first resorbable segment

being further arranged to apply force to said second resorbable segment to cause the engagement

of said second resorbable segment with the inner wall surface of the blood vessel while said

second resorbable segment is within the preexisting hollow interior of the blood vessel;

a third resorbable segment arranged to be slidably mounted on said first resorbable

segment to apply force to the outer wall surface of the blood vessel to produce tension in said

first resorbable segment confined to the portion of said first resorbable segment bridging the wall

of the blood vessel.

Claim 5 (original): The assembly of claim 4, wherein said second resorbable segment

comprises an occlusion element which causes the sealing of said opening.

Claim 6 (original): The assembly of claim 4, wherein said second resorbable segment

comprises a spreadable element which causes the sealing of said opening.

Claim 7 (previously presented): An assembly for introduction into an incision and for

sealing an opening in the wall of a blood vessel having a vessel wall with inner and outer wall

surfaces and a preexisting hollow interior, the wall having a wall thickness between the inner and

outer wall surfaces, said assembly comprising;

a first member arranged to be placed inside the incision and directed to the opening in the

wall of the blood vessel;

an occlusion element, arranged to be inserted through said first member into and through

the opening in the wall of the blood vessel for disposition within the preexisting hollow interior

of the blood vessel, said occlusion element not serving to form the preexisting hollow interior of

the blood vessel;

a retaining thread having a distal section and a proximal section, said distal section being

arranged to be inserted through the first member into the opening in the wall of the blood vessel,

said distal section being attached to said occlusion element, said proximal section being arranged

to remain proximal to the opening in the blood vessel, whereupon a portion of said retaining

thread bridges the wall thickness through the opening, with said retaining thread being further

arranged to apply force to said occlusion element to cause the engagement of said occlusion

element with the inner wall surface of the blood vessel while said occlusion element remains

within the preexisting hollow interior of the blood vessel; and

a locking element arranged to be slidably mounted on said retaining thread to apply force

to the outer wall surface of the blood vessel to produce tension in said retaining thread confined

to the portion of said retaining thread bridging the wall thickness of the blood vessel.

Claim 8 (original): The assembly of claim 7, wherein said occlusion element and said

retaining thread are resorbable.

Claim 9 (original): The assembly of claim 8 wherein said locking element is resorbable.

Claim 10 (previously presented): A bioabsorbable occlusion assembly for introduction

into an incision and for sealing an opening in the wall of a blood vessel having a vessel wall with

inner and outer wall surfaces, the blood vessel being located beneath the skin, said assembly

comprising;

an occlusion element which is sized to be fitted through the opening in the wall of the

blood and to lie generally adjacent to the inner wall surface during use;

a retaining thread sized for reception in the incision and in operative connection with said

occlusion element to extend proximally of the occlusion element through the incision; and

a locking element separate from said occlusion element and sized to be received in the

incision and beneath the skin and operatively connected to and maintaining tension upon said

retaining thread to retain the wall of the blood vessel between said locking element and said occlusion element during use.

Claim 11 (original): The assembly of claim 10 wherein sa

Claim 11 (original): The assembly of claim 10, wherein said occlusion element is

spreadable.

Claim 12 (previously presented): A sealing device for percutaneously sealing a

percutaneously made puncture in a blood vessel having a vessel wall with inner and outer wall

surfaces, said sealing device comprising

an occlusion element which is constructed and arranged to be percutaneously inserted

into the blood vessel;

a retaining thread connected to the occlusion element, said occlusion element being

repositionable after insertion into the blood vessel to engage against the inner wall surface; and

a locking element constructed and arranged to be inserted percutaneously and be moved

over the retaining thread toward and adjacent the outer wall surface of the blood vessel and into

cooperative relation with said occlusion element while said occlusion element remains within the

preexisting hollow interior of the blood vessel to thereby seal the puncture in the blood vessel.

Claim 13 (previously presented): A method of sealing an incision and an opening in a

blood vessel having a preexisting hollow interior and a vessel wall with inner and outer wall

surfaces creating a wall thickness between the surfaces, wherein the incision extends through the

skin of a patient, and wherein the opening comprises a percutaneously made puncture in the

blood vessel, said method comprising the steps of:

supplying an occlusion system comprising a first member, a first resorbable segment, a

second resorbable segment, and a third resorbable segment, said first resorbable segment

comprising a distal section and a proximal section, said distal section being operatively coupled

to said second resorbable segment, said proximal section being arranged to remain proximal to

the opening in the blood vessel;

inserting said first member into said incision and directed to the opening in the wall of the

blood vessel;

inserting said first resorbable segment and said second resorbable segment through said

first member into and through the opening in the wall of the blood vessel so that said second

resorbable segment is located in the preexisting hollow interior of the blood vessel, said second

resorbable segment not serving to form the preexisting hollow interior of the blood vessel;

applying a force on said proximal section of said first resorbable segment while said

second resorbable segment remains within the preexisting hollow interior of the blood vessel,

said force applied on said proximal section causing the engagement of said second resorbable

segment with the inner wall surface of the blood vessel, whereupon a portion of said first

resorbable segment bridges the wall thickness; and

sliding said third resorbable segment along said first resorbable segment to apply force to

the outer wall surface of the blood vessel to produce tension in said first resorbable segment

confined to the portion of said first resorbable segment bridging the wall thickness of the blood

vessel.

Claim 14 (original): The method of claim 13, wherein said second resorbable segment

comprises an occlusion element which causes the sealing of the opening.

Claim 15 (original): The method of claim 13, wherein said second resorbable segment

comprises a spreadable element which causes the sealing of the opening.

Claim 16 (original): The method claim 13, wherein said first member comprises a sheath.

Claim 17 (previously presented): A method of sealing an incision and an opening in a

blood vessel, wherein the incision extends through the skin of a patient, and wherein the opening

comprises a percutaneously made puncture in the blood vessel, the blood vessel having a

preexisting hollow interior and a vessel wall with inner and outer wall surfaces creating a wall

thickness between the surfaces, said method comprising the steps of:

supplying an occlusion system comprising a first member, a first resorbable segment, a

second resorbable segment, and a third resorbable segment, said first resorbable segment

comprising a distal section and a proximal section, said distal section being operatively coupled

to said second resorbable segment, said proximal section being arranged to remain proximal to

the opening in the blood vessel;

inserting said first member into said incision and directed to the opening in the wall of the

blood vessel, wherein the insertion of said first member causes the insertion of said first

resorbable segment and said second resorbable segment into and through the opening in the wall

of the blood vessel so that said second resorbable segment is located in the preexisting hollow

interior of the blood vessel, said second resorbable segment not serving to form the preexisting

hollow interior of the blood vessel;

applying a force on said proximal section of said first resorbable segment while said

second resorbable segment remains within the preexisting hollow interior of the blood vessel,

said force causing the engagement of said second resorbable segment with the inner wall surface

of the blood vessel, whereupon a portion of said first resorbable segment bridges the wall

thickness; and

sliding said third resorbable segment along said first resorbable segment to apply force to

the outer wall surface of the blood vessel to produce tension in said first resorbable segment

confined to the portion of said first resorbable segment bridging the wall thickness of the blood

vessel.

Claim 18 (original): The method of claim 17, wherein said second resorbable segment

comprises an occlusion element which causes the sealing of the opening.

Claim 19 (original): The method of claim 17, wherein said second resorbable segment

comprises a spreadable element which causes the sealing of the opening.

Claim 20 (original): The method of claim 17, wherein said first member comprises a

sheath.

Claim 21 (previously presented): In combination a blood vessel of a living being and a

closure assembly, said blood vessel having a vessel wall with inner and outer wall surfaces and a

preexisting hollow interior, said blood vessel including an opening in said vessel wall, said

assembly being arranged to be inserted through an incision in the living being to seal said

opening in said blood vessel wall and comprising:

a sheath arranged to be placed inside said incision and directed to the opening in said wall

of said blood vessel;

an occlusion element, arranged to be inserted through said sheath into and through said

opening in said wall of said blood vessel for disposition within said preexisting hollow interior of

said blood vessel, said occlusion element not serving to form said preexisting hollow interior of

said blood vessel;

a retaining thread having a distal section and a proximal section, said distal section being

arranged to be inserted through said sheath into and through said opening in said wall of said

blood vessel, said distal section being attached to said occlusion element, said proximal section

being arranged to remain proximal to said opening in said blood vessel, whereupon a portion of

said retaining thread bridges said wall of said blood vessel through said opening, said retaining

thread being further arranged to apply force to said occlusion element to cause said engagement

of said occlusion element with said inner wall surface of said blood vessel while said occlusion

element remains within said preexisting hollow interior of said blood vessel; and

a locking element, arranged to be slidably mounted on said retaining thread to apply force

to said outer wall surface of said blood vessel to produce tension in said retaining thread

confined to said portion of said retaining thread bridging said wall of said blood vessel.

Claim 22 (previously presented): In combination a blood vessel of a living being and a

closure assembly, said blood vessel having a vessel wall with inner and outer wall surfaces and a

preexisting hollow interior, said blood vessel including an opening in said vessel wall, said

assembly being arranged to be inserted through an incision in the living being to seal said

opening in said blood vessel wall and comprising:

a sheath arranged to be placed inside said incision and directed to said opening in said

wall of said blood vessel;

a first resorbable segment having a distal section and a proximal section, said distal

section being arranged to be inserted through said sheath into and through said opening in said

wall of said blood vessel;

a second resorbable segment attached to said distal section of said first resorbable section

and arranged to be inserted through said sheath into and through said opening in said wall of said

blood vessel for disposition within said preexisting hollow interior of said blood vessel, said

second resorbable segment not serving to form said preexisting hollow interior of said blood

vessel, said proximal section of said first resorbable segment being arranged to remain proximal

to said opening in said wall of said blood vessel, whereupon a portion of said first resorbable

segment bridges said wall of said blood vessel through said opening, said first resorbable

segment being further arranged to apply force to said second resorbable segment to cause the

engagement of said second resorbable segment with said inner wall surface of said blood vessel

while said second resorbable segment is within said preexisting hollow interior of said blood

vessel;

a third resorbable segment arranged to be slidably mounted on said first resorbable

segment to apply force to said outer wall surface of said blood vessel to produce tension in said

first resorbable segment confined to said portion of said first resorbable segment bridging said

wall of said blood vessel.

Claim 23 (previously presented): In combination a blood vessel of a living being and a

closure assembly, said blood vessel having a vessel wall with inner and outer wall surfaces and a

preexisting hollow interior, said blood vessel including an opening in said vessel wall, said

assembly being arranged to be inserted through an incision in the living being to seal said

opening in said blood vessel wall and comprising:

a first member arranged to be placed inside said incision and directed to said opening in

said wall of said blood vessel;

an occlusion element, arranged to be inserted through said first member into and through

said opening in said wall of said blood vessel for disposition within said preexisting hollow

interior of said blood vessel, said occlusion element not serving to form said preexisting hollow

interior of said blood vessel;

a retaining thread having a distal section and a proximal section, said distal section being

arranged to be inserted through said first member into said opening in said wall of said blood

vessel, said distal section being attached to said occlusion element, said proximal section being

arranged to remain proximal to said opening in said blood vessel, whereupon a portion of said

retaining thread bridges said wall thickness through said opening, with said retaining thread

being further arranged to apply force to said occlusion element to cause said engagement of said

occlusion element with said inner wall surface of said blood vessel while said occlusion element

remains within said preexisting hollow interior of said blood vessel; and

a locking element arranged to be slidably mounted on said retaining thread to apply force

to said outer wall surface of said blood vessel to produce tension in said retaining thread

confined to said portion of said retaining thread bridging said wall thickness of said blood vessel.

Claim 24 (previously presented): In combination a blood vessel of a living being and a

closure assembly, said blood vessel having a vessel wall with inner and outer wall surfaces and a

preexisting hollow interior, said blood vessel including an opening in said vessel wall, said

assembly being arranged to be inserted through an incision in the living being to seal said

opening in said blood vessel wall and comprising:

an occlusion element which is constructed and arranged to be percutaneously inserted

into said blood vessel for disposition within said preexisting hollow interior of said blood vessel,

said occlusion element not serving to form said preexisting hollow interior of said blood vessel;

a retaining thread connected to said occlusion element, said occlusion element being

repositionable after insertion into said blood vessel to engage against said inner wall surface; and

a locking element constructed and arranged to be inserted percutaneously and be moved

over said retaining thread toward and adjacent said outer wall surface of said blood vessel and

into cooperative relation with said occlusion element while said occlusion element remains

within said preexisting hollow interior of said blood vessel to thereby seal said puncture in said

blood vessel.